

Wednesday, January 16, 2019

Attn: Mr. Keith Gammell Barnhardt Mfg. Co. 247 Main Rd P.O. Box 3 Colrain, MA 01340

Project ID: NPDES QUARTERLY JAN 2019

Sample ID#s: CC26421

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis/Shiller

**Laboratory Director** 

NELAC - #NY11301 CT Lab Registration #PH-0618 MA Lab Registration #M-CT007 ME Lab Registration #CT-007 NH Lab Registration #213693-A,B NJ Lab Registration #CT-003 NY Lab Registration #11301 PA Lab Registration #68-03530 RI Lab Registration #63 UT Lab Registration #CT00007 VT Lab Registration #VT11301



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

January 16, 2019

FOR: Attn: Mr. Keith Gammell

Barnhardt Mfg. Co.

247 Main Rd P.O. Box 3

Colrain, MA 01340

Sample Information **Custody Information** Date Time **WASTE WATER** KG 01/09/19 7:00 Matrix: Collected by: Received by: Location Code: **BARNHARD** В 01/09/19 16:06

Rush Request: Standard Analyzed by: see "By" below

P.O.#: G-10513

-aboratory Data SDG ID: GCC26421

Phoenix ID: CC26421

Project ID: NPDES QUARTERLY JAN 2019

Client ID: EFFLUENT

RL/ Parameter Result **PQL** Units Dilution Date/Time Βy Reference Copper 0.031 0.003 mg/L 1 01/12/19 CPP E200.7 5.9 4.0 mg/L 2 RVM/RM SM5210B-11 B.O.D./5 day 01/10/19 11:30 B.O.D./5 day End Incubation 01/15/19 14:29 RVM/RM SM5210B-11 328 10 mg/L 1 01/11/19 KMH SM5220D-11 5 1.12 0.25 01/11/19 KDB E350.1 Ammonia as Nitrogen mg/L Nitrite-N 0.576 0.020 mg/L 2 TB E353.2 01/09/19 21:09 01/09/19 21:02 E353.2 Nitrate-N 10.8 0.20 mg/L 10 TB < 0.015 0.015 01/11/19 KMH E420.4 Phenolics mg/L 1 Nitrogen Tot Kjeldahl 9.82 0.50 mg/L 5 01/11/19 KDB E351.1 Total Nitrogen 21.2 0.10 mg/L 1 01/11/19 KDB SM4500NH3/E300.0-97 3.34 10 Phosphorus, as P 0.10 mg/L 01/11/19 JR SM4500PE-11 14 5.0 01/11/19 MM/DA SM2540D-11 **Total Suspended Solids** mg/L 1 **Total Metals Digestion** Completed 01/11/19 AG

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

Ortho-Phosphate was not field filtered within 15 minutes of collection.

If there are any questions regarding this data, please call Phoenix Client Services.

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

January 16, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



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# QA/QC Report

January 16, 2019

### QA/QC Data

SDCID.	GCC26421
3DG 1.D	GCC20421

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 463078 (mg/L), QC Sample No: CC26417 (CC26421)														
ICP Metals - Aqueous														
Copper	BRL	0.0025	0.015	0.0133	12.0	110			112			75 - 125	20	



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### QA/QC Report

January 16, 2019

### QA/QC Data

SDG I.D.: GCC26421

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 463019 (mg/L), C	C Samp	ole No:	CC26166	(CC264	21)								
Total Suspended Solids	BRL	5.0	14	14	NC	93.0						85 - 115	
QA/QC Batch 462835 (mg/L), C	C Samp	ole No:	CC26598	(CC264	21)								
C.O.D. Comment:	BRL	10	31	29	NC	105			102			85 - 115	20
Additional: LCS acceptance range	e is 85-11	5% MS	acceptance	e range 7	'5-125%								
QA/QC Batch 462845 (mg/L), C	C Samp	ole No:	CC26661	(CC264	21)								
B.O.D./5 day	BRL	2.0	5.7	5.4	NC	100			101			70 - 130	20
B.O.D./5 day GGA BOD						113						84 - 115	20
QA/QC Batch 463015 (mg/L), C	C Samp	ole No:	CC26853	(CC264	21)								
Phosphorus, as P Comment:	BRL	0.01	3.26	3.53	8.00	97.6			NC			85 - 115	20
Additional: LCS acceptance range	is 85-11	5% MS	acceptance	e range 7	5-125%								
QA/QC Batch 462756 (mg/L), C	C Samp	ole No:	CC26319	(CC264	21)								
Nitrate-N	BRL	0.02	< 0.02	<0.02	NC	107			107			90 - 110	20
Nitrite-N	BRL	0.01	< 0.010	< 0.01	NC	105			104			90 - 110	20
QA/QC Batch 462894 (mg/L), C	C Samp	ole No:	CC26144	(CC264	21)								
Ammonia as Nitrogen	BRL .	0.05	0.19	0.21	NC	97.1			93.0			90 - 110	20
Nitrogen Tot Kjeldahl Comment:	BRL	0.10	1.84	2.09	12.7	101			101			85 - 115	20
TKN is reported as Organic Nitrog	en in the	Blank, L	.CS, DUP a	and MS.									
QA/QC Batch 462771 (mg/L), C	C Sam	ole No:	CC25327	(CC264	21)								
Phenolics	BRL	0.015	<0.015	•	NC	107			92.5			90 - 110	20

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis/Shiller, Laboratory Director

January 16, 2019

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# Sample Criteria Exceedances Report GCC26421 - BARNHARD

Criteria: None State: MA

RL Analysis SampNo Acode Phoenix Analyte Criteria Units

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

<sup>\*\*\*</sup> No Data to Display \*\*\*



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## **Analysis Comments**

January 16, 2019 SDG I.D.: GCC26421

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.

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Cooler: Yes	Temb. ()°C Pg of	Data Delivery/Contact Options:	Phone: 413-624-3471 x3722 Email: 16:44. g Armell g barnhardt. 11	Project P.O: (> 10X)3	This section MUST be	completed with	Bottle Quantities.		litologi 2000	toos luos luos luos luos luos luos luos l	\$100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7	7	×	<i>y</i>	+	+	<i>y</i>	<b>У</b>	<b>&gt;</b>		Data Format		Equis		S-3 GW-2 S-3 GW-3 Full Data Package*  RRT Other Other Other	MB .se
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	CHAIN OF CUSTODY RECORD	(37	Email: info@phoenixlabs.com Fax (860) 64 Client Services (860) 645-8726	Project: NPDES	Report to: Keth	- 1	QUOTE#	3.	Analysis Reguest	1466				)	1	-	1					Time: RI	¥	/ Gw	Turnaround Time:	yys*	AIU RGE APPLIES
		587 East	Ē		man ed	01340			Date: 1-9-19	<b>W</b> =Waste Water <b>W</b> =Wipe OIL=Oil	Date Time Sampled Sampled	Ŀ	1-9-19 700	1-6-19 Jam	-9-19 712m	A-19 7A-	1-9-19 Jan	e-19 yan	1-6-19 Jan	1-d-1g 2pm		Date:	1-6-16 VY		Turnaround	2 Days*	SurchA
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	TARK BLACK		Environmental Laboratories,	(SAM hardt	POBOX 3			Client Sample - Information - Identification	<	Matrix Code: DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Soild W=Wipe OIL=Oil B=Bulk L=Liquid X =(Other)	Customer Sample Identification	E-F-Flow T	FFHunt	上代十分十	EPHont	L-(Alvert	EFFLANT	Effloort	Efflort	Efflowt		Accepted by:			Comments, Special Requirements or Regulations:		*
			Environme	Customer: (	Address:				Sampler's Signature	Matrix Code: DW=Drinking Water RW=Raw Water St B=Bulk L=Liquid X	PHOENIX USE ONLY SAMPLE #	210421/						_				Relinguished by:	<u>الح</u>		Comments, Special		